Table 1: p17

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)		
1 L14.17	p17(11–25) References: [Tatsum	p17(11–25 BRU) ii (1990), Robert-Hebmann	GELDRWEKIRLRPGG (1992b), Robert-Hebmann (19	no 92a)]	Inactivated BRU	murine(IgG)		
2 HyHIV-1	p17(12–29) p17(12–29 JMH1) ELDKWEKIRLRPGGKTLY no rec p17 murine(IgG ₁) References: [Liu (1995), Ota & Ueda(1998)] • HyHIV-1: This paper compares the results of affinity constant (Ka) measurements of anti-p17 MAbs using double Ab methods versus the faster, isotope-free BIAcore system, and results were found to be similar for HyHIV-(1-6)—these six MAbs all bind to the first α helix of p17, a functional domain for both membrane binding and nuclear localization – Ota98b							
3 HyHIV-2	 p17(12–29) p17(12–29 JMH1) ELDKWEKIRLRPGGKTLY no rec p17 murine(IgG₁) References: [Liu (1995), Ota & Ueda(1998)] HyHIV-2: This paper compares the results of affinity constant (Ka) measurements of anti-p17 MAbs using double Ab methods versus the faster, isotope-free BIAcore system, and results were found to be similar for HyHIV-(1-6)—these six MAbs all bind to the first α helix of p17, a functional domain for both membrane binding and nuclear localization – Ota98b 							
4 HyHIV-3	p17(12–29) p17(12–29 JMH1) ELDKWEKIRLRPGGKTLY no rec p17 murine(IgG ₁) References: [Liu (1995), Ota & Ueda(1998)] • HyHIV-3: This paper compares the results of affinity constant (Ka) measurements of anti-p17 MAbs using double Ab methods versus the faster, isotope-free BIAcore system, and results were found to be similar for HyHIV-(1-6)—these six MAbs all bind to the first α helix of p17, a functional domain for both membrane binding and nuclear localization – Ota98b							
5 HyHIV-4	 HyHIV-4: epitor stains the surface HyHIV-4: This I Ab methods vers 	e of infected cells indicating paper compares the results of the faster, isotope-free Eall bind to the first α helix	ELDKWEKIRLRPGGKTL-Y? da(1998)] sest estimate from JMH1 seque the antigen is exposed at the coof affinity constant (Ka) measu BIAcore system, and results we to of p17, a functional domain	ence– Ka is 1.8 scell surface –Ota urements of antiere found to be s	98a -p17 MAbs using double imilar for HyHIV-(1-6)—	murine(IgG ₁)		

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)		
6 HyHIV-5	• HyHIV-5: This Ab methods ver	sus the faster, isotope-free E all bind to the first α helix	ELDKWEKIRLRPGGKTL of affinity constant (Ka) measu BIAcore system, and results we of p17, a functional domain	arements of anti- ere found to be s	imilar for HyHIV-(1-6)	_		
7 HyHIV-6	 HyHIV-6: This Ab methods ver 	sus the faster, isotope-free E all bind to the first α helix	ELDKWEKIRLRPGGKTL of affinity constant (Ka) measu BIAcore system, and results we of p17, a functional domain	arements of anti- ere found to be s	imilar for HyHIV-(1-6)	-		
8 32/1.24.89	p17(17–22) References: [Papsid • 32/1.24.89: Inhi	p17(17–22 IIIB) lero (1989)] bited infectivity of cell free	EKIRLR virus –Papsidero89	L	Viral lysate	murine(IgG)		
9 3E11	_	p17(19–38 SIVmac) en (1992), Nilsen (1996)] enother MAb with this ID th	IRLPGGKKKYMLKHVV- WAA at recognizes integrase –Nilser		Inact AGMTYO-7	murine(IgG ₁)		
	• 3E11: Recognized an epitope present on HIV-2/SIVmac (MAC251/32H), SIVagm, HIV-1, and SIVmnd, demonstrating that the matrix protein of all nine HIV and SIV isolates tested in this study expresses at least one highly conserved immunogenic epitope –Otteken92							
10 3B10	p17(19–38)	p17(19–38 SIVmac)	IRLPGGKKKYMLKHVV- WAA	no	Inact AGMTYO-7	$murine(IgG_1)$		
	 References: [Otteken (1992)] 3B10: Recognized an epitope present on HIV-2/SIVmac (MAC251/32H), SIVagm, HIV-1, and SIVmnd, demonstrating that the matrix protein of all nine HIV and SIV isolates tested in this study expresses at least one conserved immunogenic epitope recognized serologically –Otteken92 							

HIV Monoclonal Antibodies

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)		
11 HyHIV-21	p17(30–52)	p17(30–52 JMH1)	KLKHIIWASRELERFAV- NPGLLE	no	rec p17	$murine(IgG_{2a})$		
	References: [Liu (1995), Ota (1998)]							
	– stains the surfa	ace of infected cells indicate	best estimate from JMH1 sequing the antigen is exposed at that the initial culture –Ota98a	e cell surface –ii		-		
12 -B4f8	p17(51-65)	p17(51–65)	LETSEGCRQILGQLQ	no	IIIB lysate	$rat(IgG_{2a})$		
	References: [Shang (1991)] • -B4f8: Did not bind live infected cells, only cells that had been made permeable with acetone –Shang91							
13 12H-D3b3	p17(62–78)	p17(62–78)	GQLQPSLQTGSEELRSL	no	IIIB lysate	$\operatorname{rat}(\operatorname{IgG}_{2a})$		
	References: [Shang (1991)] • 12H-D3b3: Did not bind live infected cells, only cells that had been made permeable with acetone –Shang91							
14 12G-A8g2	p17(86–115)	p17(86–115)	YCVHQRIEIKDTKEALD- KIEEEQNKSKKKA	no	IIIB lysate	$\mathrm{rat}(\mathrm{Ig}\mathrm{G}_{2a})$		
	References: [Shang • 12G-A8g2: Bou as HPG30 –Shar	nd to 30-mer, but not to inte	ernal peptides – did not bind live	e infected cells –	antigenic domain k	known		
15 12G-D7h11	p17(86–115)	p17(86–115)	YCVHQRIEIKDTKEALD- KIEEEQNKSKKKA	no	IIIB lysate	$rat(IgG_{2a})$		
	References: [Shang • 12G-D7h11: Bo known as HPG3	ound to 30-mer, but not to	internal peptides – did not bir	nd live infected	cells – antigenic de	omain		
16 12I-D12g2	p17(86–115)	p17(86–115)	YCVHQRIEIKDTKEALD- KIEEEQNKSKKKA	no	IIIB lysate	$rat(IgG_{2a})$		
	References: [Shang (1991)] • 12I-D12g2: Bound to 30-mer, but not to internal peptides – did not bind live infected cells – antigenic domain known as HPG30 –Shang91							

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)			
17 12G-H1c7	p17(86–115)	p17(86–115)	YCVHQRIEIKDTKEALD- KIEEEQNKSKKKA	no	IIIB lysate	rat(IgG)			
	References: [Shang (1991)] • 12G-H1c7: Bound to 30-mer, but not to internal peptides – did not bind live infected cells – antigenic domain known as HPG30 –Shang91								
18 polyclonal	p17(86–115)	p17(86–115)	YSVHQRIDVKDTKEALE- KIEEEQNKSKKKA	L	peptide, oral, cholera toxin adjuvant	murine(IgA)			
	 Polyclonal secret 	References: [Bukawa (1995)] • Polyclonal secretory IgA antibody raised by mucosal immunization is able to neutralize IIIB, SF2, and MN – HIV- 1 neutralization may be due to the V3, CD4 or HPG30 component of the multicomponent peptide immunogen							
19 HyHIV-15	p17(87–115) p17(87–115 JMH1) L rec p17 murine(IgG ₁) References: [Liu (1995), Ota (1998)] • HyHIV-15: epitope uncertain, based on the best estimate from JMH1 sequence – Ka is 1.4 × 10 ⁷ M ⁻¹ for rec p17 – stains the surface of infected cells indicating the antigen is exposed at the cell surface – inhibited growth of HIV-1 JMH1 in MT-4 cells when added 24 hours after the initial culture –Ota98a								
20 11H9					Inact CBL-1	murine(IgG ₁)			
21 C5126	p17(113–122) References: [Hinkula • C5126: Defined e		KKAQQAAADT of binding to native protein – W	no B reactive with	Inact HIV lysate p53 and p17 –Hinkula9	$murine(IgG_1\kappa)$			
22 3-H-7	3-H-7: No cross-3-H-7: Called 3H expressed in the c	reactivity with HIV-2 ROD 17 – using a bicistronic vecto cytoplasm of dividing CD4+	KKAQQAAADT 1992b), Robert-Hebmann (1992 or SIV MAC by immunoblot— r, an intracellular Fab intrabody T cells—HXBIIIB and SI prim y acts both at the stage of nuc	Niedrig89 y, 3H7, can inhib ary isolate virio	oit HIV-1 infection whe	ıg			

HIV Monoclonal Antibodies

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)
23 4H2B1	p17(119–132) Donor: R. B. Ferns at References: [Ferns (1 • 4H2B1: Reactive • 4H2B1: UK Med	Inact CBL-1	murine(IgG ₁)			
24 1D9					Inact CBL-1	$murine(IgG_{2a})$
25 4C9	_				Inact CBL-1	$\operatorname{murine}(\operatorname{IgG}_{2a})$
26 9G5					Inact CBL-1	murine(IgM)
27 31-11	p17(121–132) References: [Robert-	p17(121–132 BRU) Hebmann (1992b), Robert-	DTGHSSQVSQNY Hebmann (1992a)]	no	BRU	murine(IgG)
28 15-21	p17(121–132) References: [Robert-	p17(121–132 BRU) Hebmann (1992b), Robert	DTGHSSQVSQNY Hebmann (1992a)]	no	BRU	murine(IgG)
29 sc-FV p17	References: [Robert- • A single chain Ab		DTGHSSQVSQNY (1998)] In anti-p17 MAb, and intracelly when the sc-FV was express			